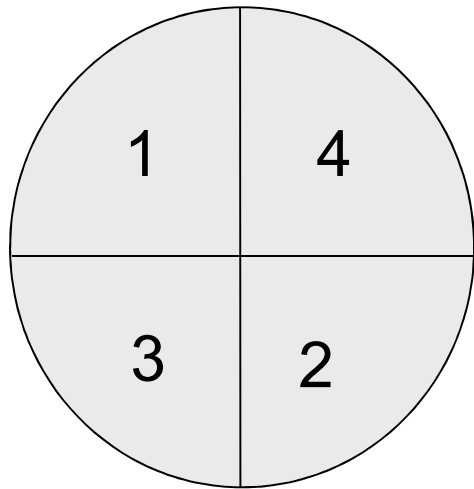


# To Build A Fire



It's going to be a chilly night! Mr. and Mrs. Jones need to build a campfire. Help them find the right firewood before it gets dark.



**Spinner**

**How to play:** You need 1 or 2 people to play this game. Find a small, straight twig to use on the spinner and use pebbles as game pieces. First person to find the right firewood wins!

<p><b>Start here.</b></p>	<p>You report an EAB to the Park ranger. Move ahead 3 spaces.</p>	<p>Firewood the Joneses brought from home (100 miles away). Back 4 spaces.</p>	<p>A D-shaped exit hole. Back 2 spaces.</p>		
	<p>Yummy! Move up 1 space.</p>		<p>Woodpeckers help us find EAB. Move ahead 2 spaces.</p>	<p>Hurry! The sun is setting. Move ahead 1 space.</p>	
	<p>Oh no! Firewood from a place infested with EAB! Go back to start.</p>		<p>The tent blows down. Back 1 space.</p>		
			<p>A dying ash tree. Go back 5 spaces.</p>		
			<p>Hurray! You've found firewood for sale near the campground! Good job!</p>		

Here's a picture of the toasty fire Mr. and Mrs. Jones are enjoying with the firewood you found!



## Instant Essay: Fill-In-The-Blanks

An \_\_\_\_\_ species is one that invades a new neighborhood and steals food and water from species that have always lived there.

The emerald ash borer (EAB) is a shiny, \_\_\_\_\_ - colored wood boring \_\_\_\_\_ that came to North America from the continent of \_\_\_\_\_. Several adult EAB can fit on a bright copper \_\_\_\_\_.

Emerald ash borers feed only on \_\_\_\_\_ trees. You can find these trees in several settings including \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_. Ash trees are often located along the rivers because they love being near \_\_\_\_\_. The wood from ash trees is strong and flexible so it is used to make \_\_\_\_\_ bats and handles for tools.

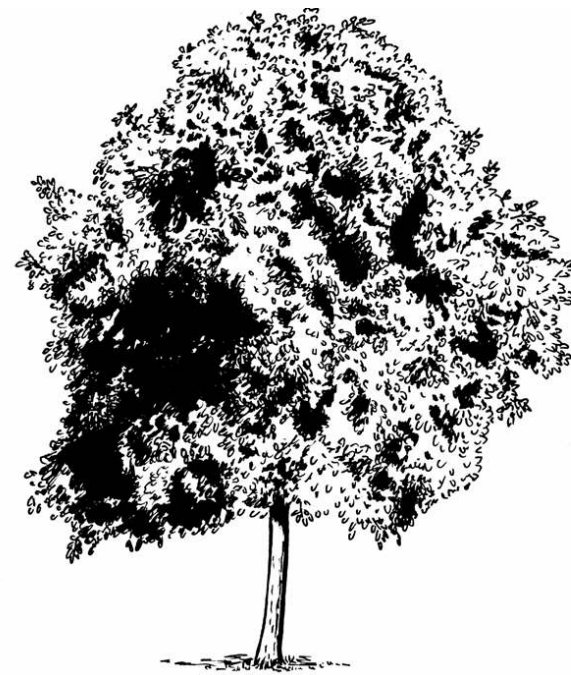
EAB kills \_\_\_\_\_, beautiful trees, as well as those that are unhealthy. The adult EAB female lays her eggs on the rough outer \_\_\_\_\_ of the tree. Immature EAB, called \_\_\_\_\_, feed on tissue of the ash tree that is used to circulate its food and water throughout the tree. Adult EAB begin to emerge from under the tree's bark in the month of \_\_\_\_\_ through holes that are shaped like the letter \_\_\_\_\_.

EAB is often moved to new locations in \_\_\_\_\_ so please tell your parents to buy it only near the place where they are going to burn it.

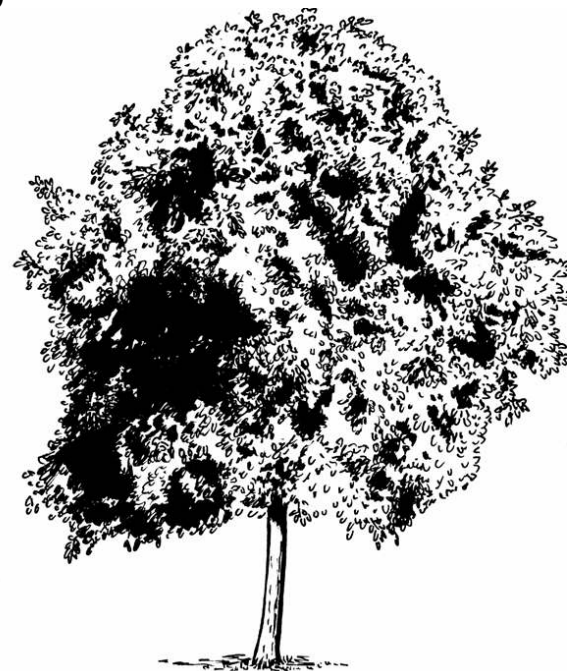
**Use the following words to fill in the blanks:**

Firewood	Invasive	Forests
Green	Neighborhoods	Baseball
Bark	Ash	Asia
Beetle	Healthy	Penny
Water	Cities	May
Larvae	D	

## Seasons

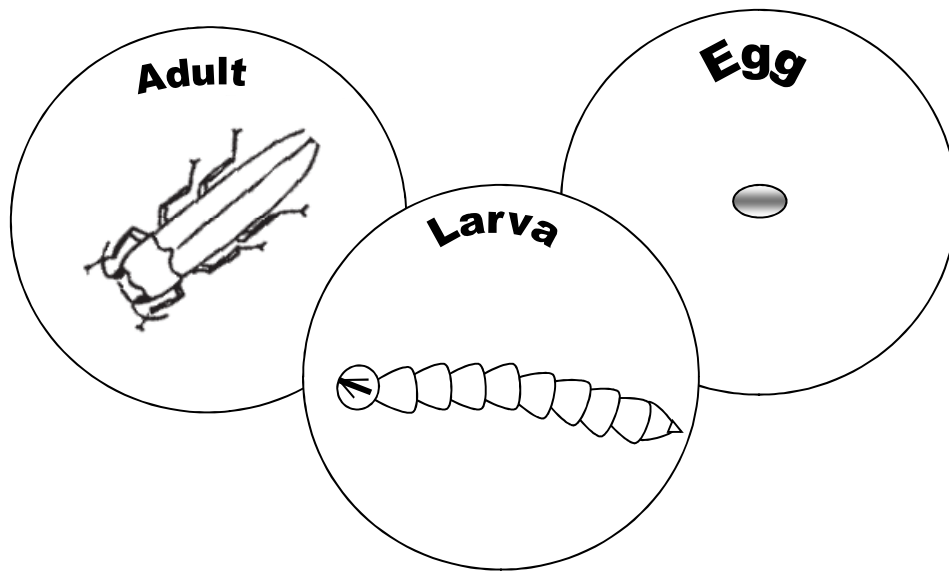


Color an ash tree in summertime and draw yourself standing next to it.



Color the same tree (and you, too!) in autumn. 8

# The EAB Life Cycle



## Fill in the blanks:

An emerald ash borer starts life as a tiny \_\_\_\_\_.

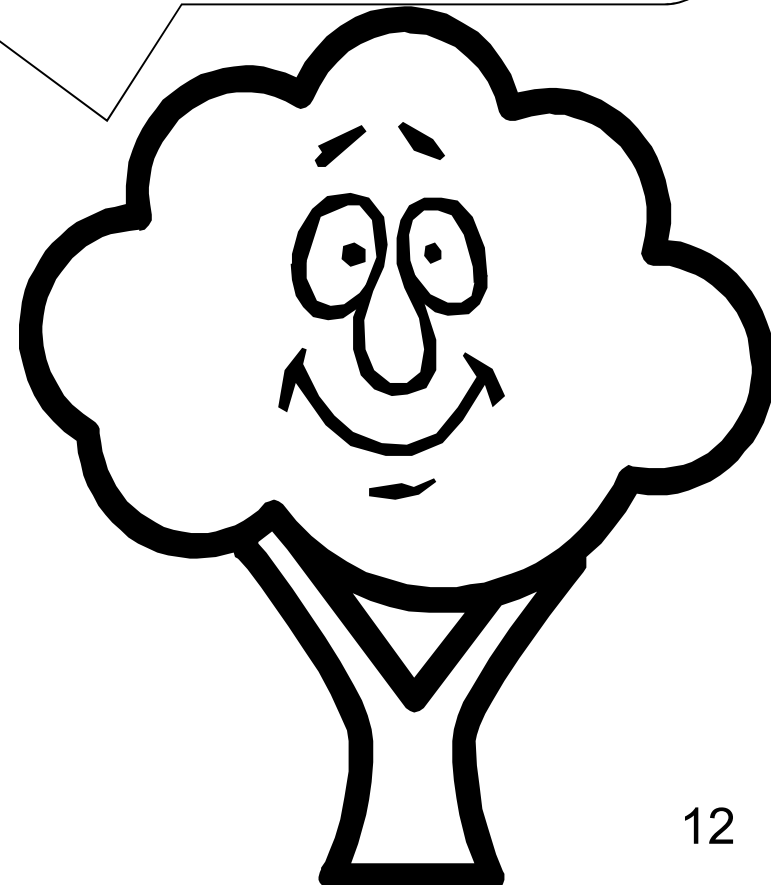
After a few days, the EAB becomes a \_\_\_\_\_ and feeds under the ash tree's bark all summer long. When the weather turns cool, the EAB snuggles in and takes a long nap that lasts all winter.

In the spring, the EAB wakes up and changes into an \_\_\_\_\_ while still under the bark. When it is strong enough, it chews its way out through a D-shaped hole and looks for a mate to start everything all over again.

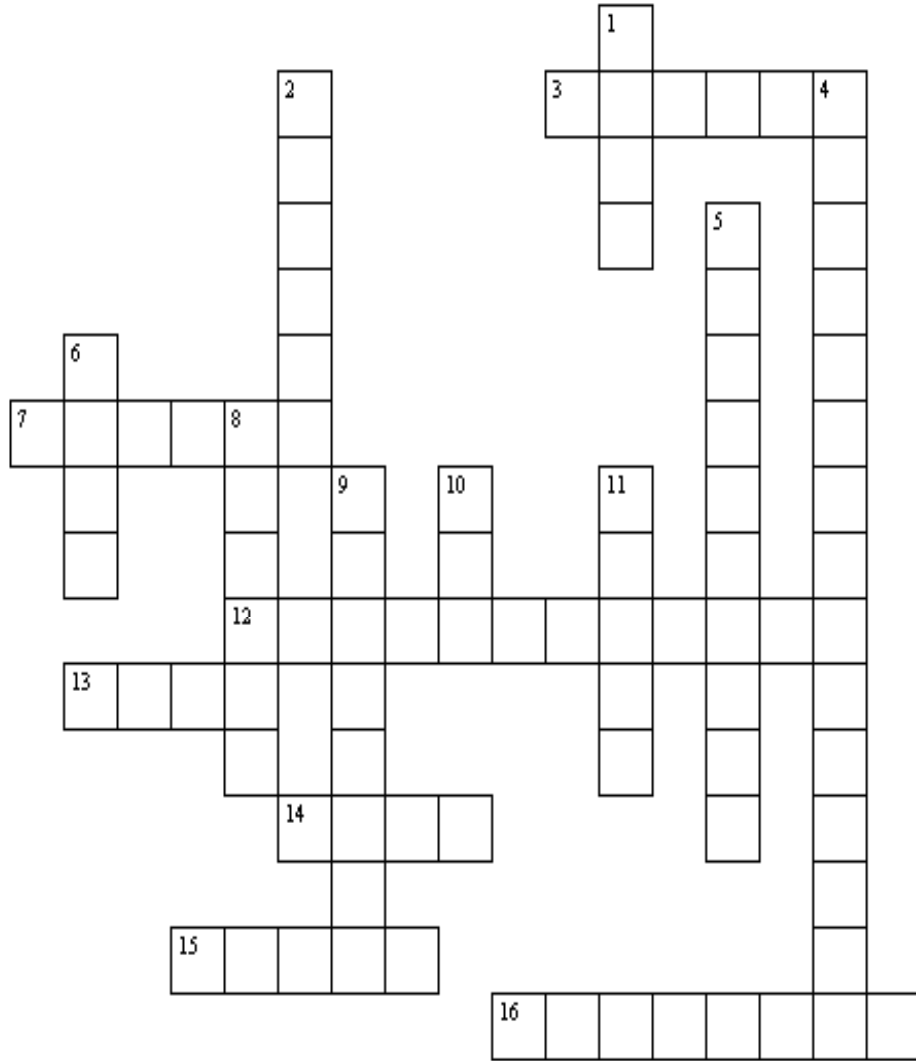
## I've Got Something To Ask You...

If you were an ash tree, what would you ask people to do to save you from the emerald ash borer? Write down your message and color yourself!

A large, empty rectangular box with rounded corners, intended for a student to write a message to people to save ash trees from the emerald ash borer.

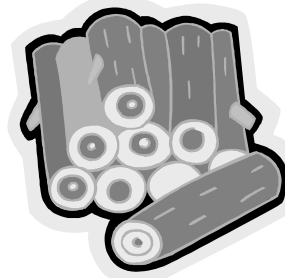


# EAB Crossword Fun!

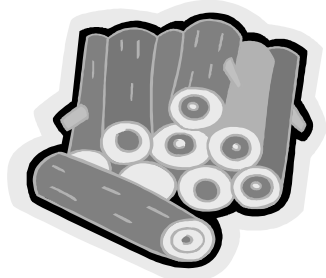


Down: 1. Bark 2. Insect 4. Emerald Ash Borer 5. Campground 6. Home 8. Summer 9. Firewood 10. Ash 11. Kills  
Across: 3. Larvae 7. Forest 12. Marshmallows 13. Fine 14. Good 15. Shade 16. Campfire

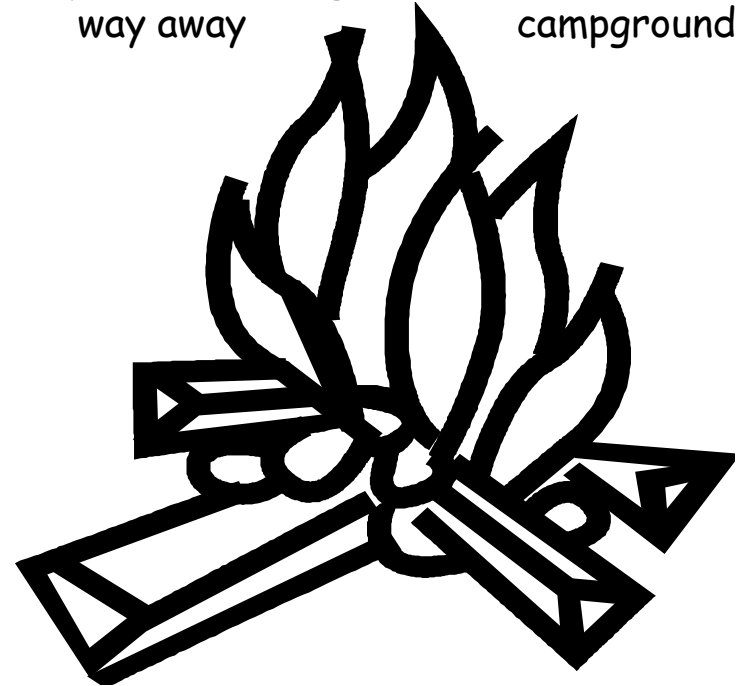
## Circle The Firewood Your Family Should Choose:



Firewood you brought with you from a long way away



Firewood you bought near or at the campground

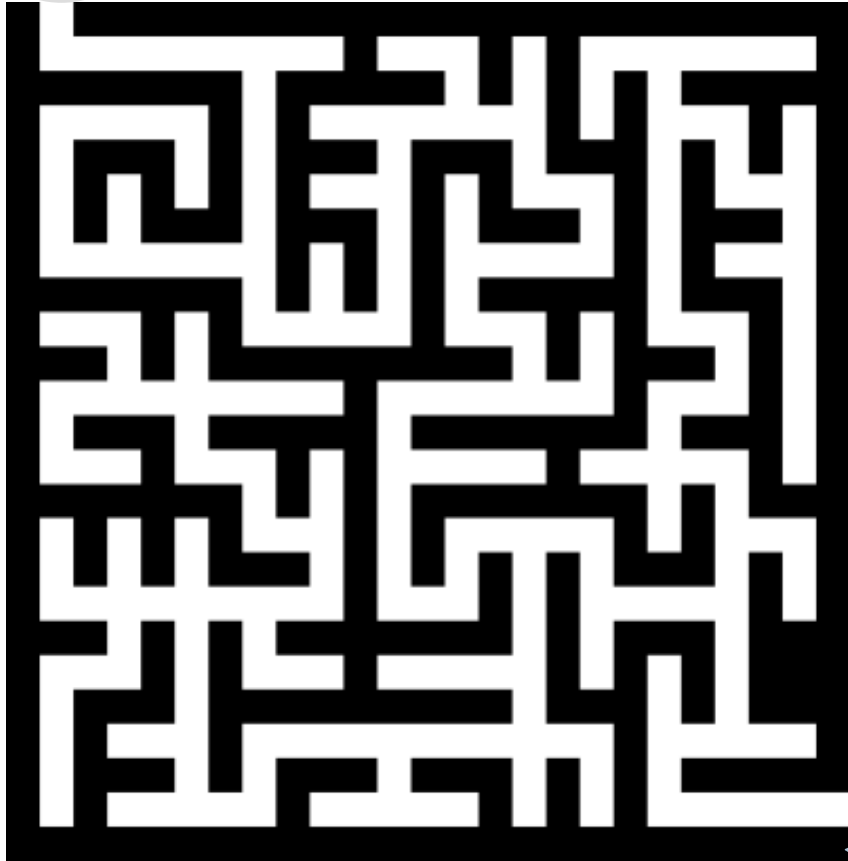


Now color this glowing campfire.  
Don't forget the sparks!

Answer: Always buy firewood locally and never move it long distances.



## A Trip Through The Maze



Help Jimmy find his way to a resting place under the shady ash tree!

### DOWN

1. Young EAB live under this part of the tree.
2. EAB is this type of animal.
4. The Green Menace (3 words).
5. A place to pitch a tent or park an RV.
6. Never bring firewood with you from here.
8. The time of year when young EAB feed in the tree.
9. EAB likes to sneak a ride to parks in this.
10. The type of tree that EAB loves to eat.
11. What EAB eventually does to ash trees.

### ACROSS

3. The proper term for young EAB.
7. A lovely place full of trees and animals.
12. A gooey treat that you toast over flames when camping.
13. What you must pay if you move firewood illegally.
14. How you will feel if you help save Maryland's trees!
15. Trees provide this on a sunny day.
16. You build one of these when camping to keep you cozy and warm at night.

# Test Your Knowledge!

Circle the correct response. Answers are below.

- How many ash trees are there in the forests of North America?  
a. 8,000 b. 8,000,000 c. 8,000,000,000
- How many ash trees grow in Maryland's forests?  
a. hundreds b. thousands c. millions
- Branches of ash trees grow:  
a. Opposite of each other (like your arms)  
b. In a staggered pattern
- Ash wood is used to make:  
a. Tool handles b. Baseball bats  
c. Canoe paddles d. All of the above
- If they are not controlled, emerald ash borers could eventually kill all ash trees in North America. \_\_\_\_\_ True \_\_\_\_\_ False
- One of the most important things we can do to protect ash trees is to not move firewood.  
True \_\_\_\_\_ False \_\_\_\_\_

# Scrambled Words

Unscramble these jumbled up words, one letter to each box, to spell the name of things related to Emerald Ash Borer.

ENERG  
[ ] [ ] [ ] [ ] [ ]

RETSE  
[ ] [ ] [ ] [ ] [ ]

UGB  
[ ] [ ] [ ]

AKRB  
[ ] [ ] [ ] [ ]

WDFEOIOR  
[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

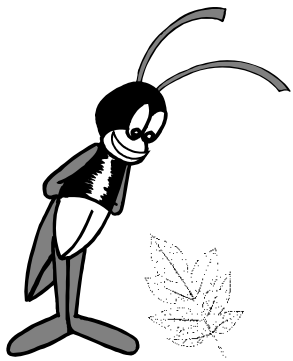
Arrange the circled letters to solve the mystery word.

[ ] [ ] [ ] [ ] [ ]

# EAB Word Search!

E	N	U	J	T	R	E	E	I	E
F	I	R	E	W	O	O	D	N	L
G	N	I	D	E	E	F	S	V	T
N	E	E	R	G	S	A	H	A	E
L	L	A	R	V	A	E	O	S	E
T	L	E	B	Z	P	L	O	I	B
A	M	I	B	U	G	S	T	V	M
E	W	Y	K	E	O	F	S	E	C

Find these words hidden in the puzzle.



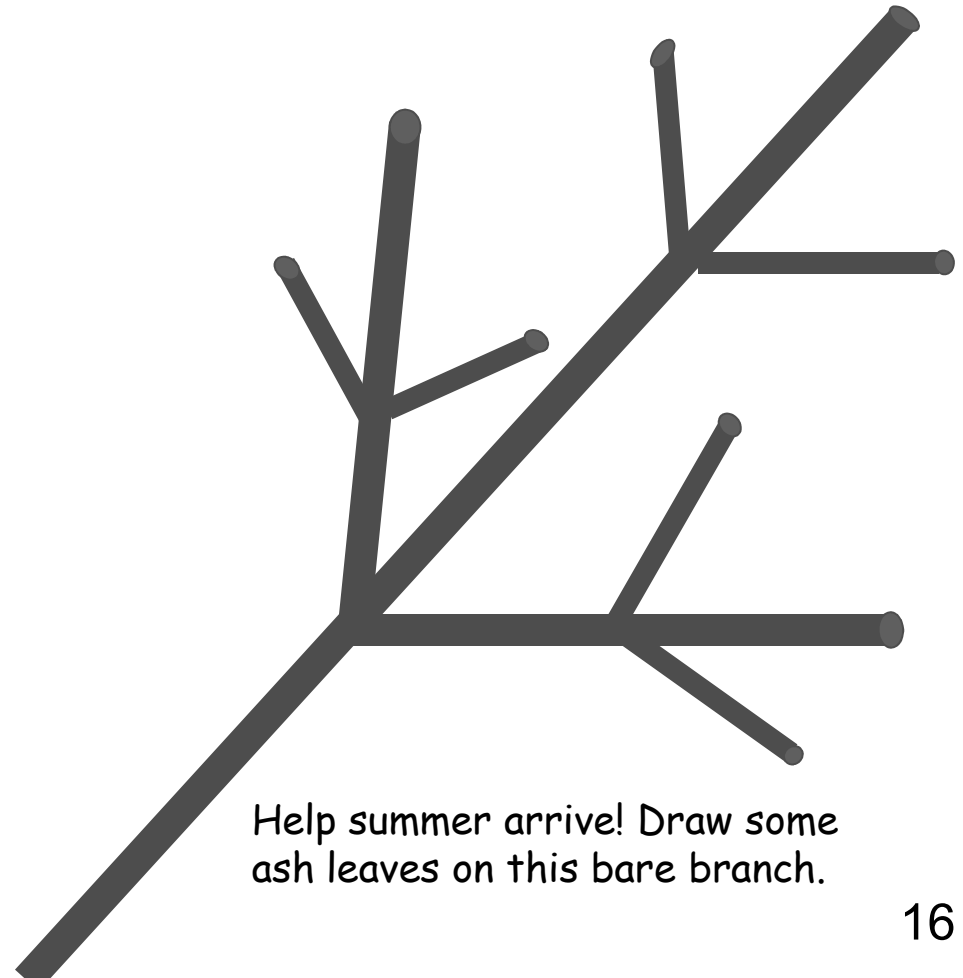
BEETLE  
EAB  
EMERGE  
FIREWOOD  
GREEN  
JUNE  
LARVAE  
SAP  
TREE

BUGS  
EAT  
FEEDING  
FOE  
INVASIVE  
KILL  
LEAF  
SHOOTS

# Leaves



This is what an ash leaf looks like. Can you make it nice and green?



Help summer arrive! Draw some ash leaves on this bare branch.

Color the beetle! (Hint: He's really green!) 2



A Healthy Ash Tree	An Ash Tree After EAB

Draw an ash tree before and after EAB



## Introduction:

Emerald ash borer (EAB) is an invasive insect that is often moved to new places in firewood. It could destroy all of North America's ash trees and badly hurt our forests.

Adult EAB beetles are bright metallic green in color. Adults are only one half inch long and are present during the summer months. Symptoms of EAB include thinning leaves at the top of the ash tree and D-shaped exit holes on the trunk and limbs.

You can help stop this bad beetle by learning about EAB and by asking your parents to buy all firewood at the same place they're going to use it. We hope this activity book will be a fun way to help you become an EAB expert!



For more information on  
Emerald Ash Borer, visit:

**[www.emeraldashborer.info](http://www.emeraldashborer.info)**

Or call the University of Maryland Home  
and Garden Information Center at:

**1-800-342-2507**



This booklet was adapted from a Purdue University  
Entomology Department publication.

# The Emerald Ash Borer



## Fun Activity Book

Have fun while you  
learn about this  
pesky beetle!